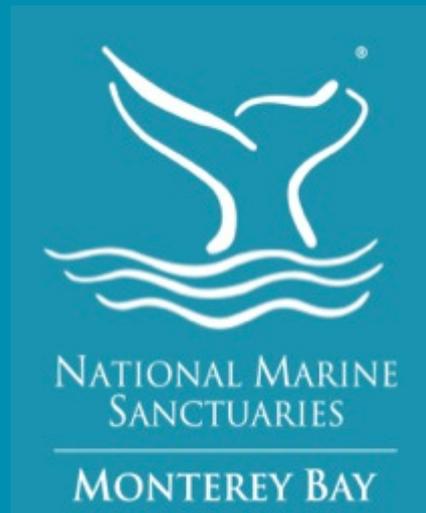




Implementation Status Update



Management Plan Review

Internal Assessment

- Report level of completion
- Outline major accomplishments
- Assess status of strategies

COASTAL DEVELOPMENT

Coastal Armoring

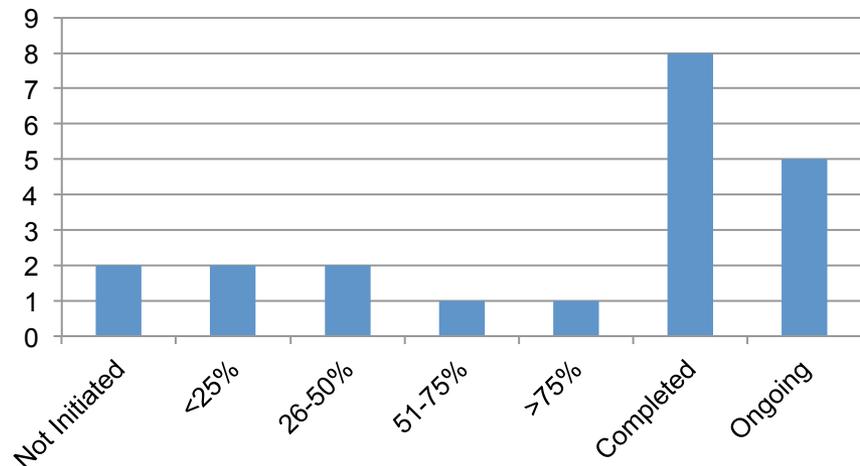
Major Accomplishments

- Southern Monterey Bay Coastal Regional Sediment Management Plan, 2009
- *Evaluation of Erosion Mitigation Alternatives for Southern Monterey Bay* report, 2012
- Draft Coastal Regional Sediment Management Plan for Santa Cruz Littoral Cell, 2015

Looking Ahead

- Relevant, requires some revision, particularly with regional approach
- Finalize 2015 CRSM Plan
- Implement strategies in both Monterey and Santa Cruz CRSMP's

Coastal Armoring



COASTAL DEVELOPMENT

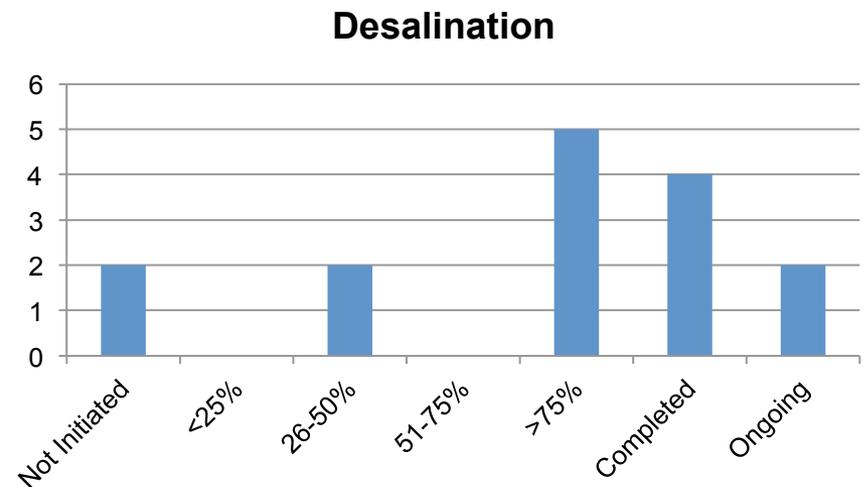
Desalination

Major Accomplishments

- Developed NOAA's Guidelines for Desalination Plants in MBNMS, 2009
- Completed a final EA and FONSI for California American Water test slant well project at CEMEX site in Marina & authorized the Coastal Commission Coastal Development Permit
- Completed a new web page on Desalination Projects in Monterey Bay
- Will serve as Federal lead for NEPA on 2 current projects

Looking Ahead

- Largely still applicable, revisions needed for modeling and monitoring
- Continue to apply NOAA guidelines to citing desal facilities in MBNMS



COASTAL DEVELOPMENT

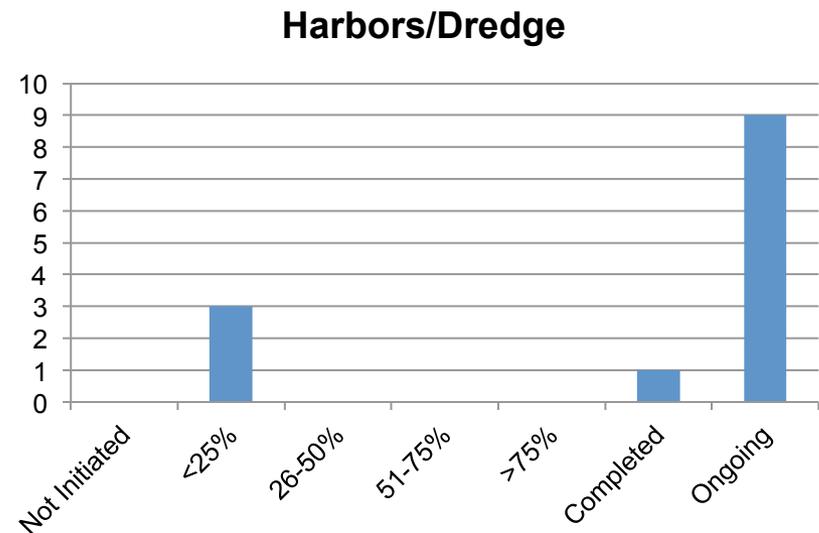
Harbors and Dredge

Major Accomplishments

- Harbor and dredge disposal permit process streamlined
- Consulted on Elkhorn Slough sill reducing sediment erosion, protecting marsh
- Annual reviews for harbor dredge disposal is an ongoing process

Looking Ahead

- Plan is entirely relevant as is
- Coordinate with USACE, GFNMS, and Surfer's Beach stakeholders on pilot beach nourishment project
- Continue to coordinate with harbors on dredge disposal activities



COASTAL DEVELOPMENT

Submerged Cables

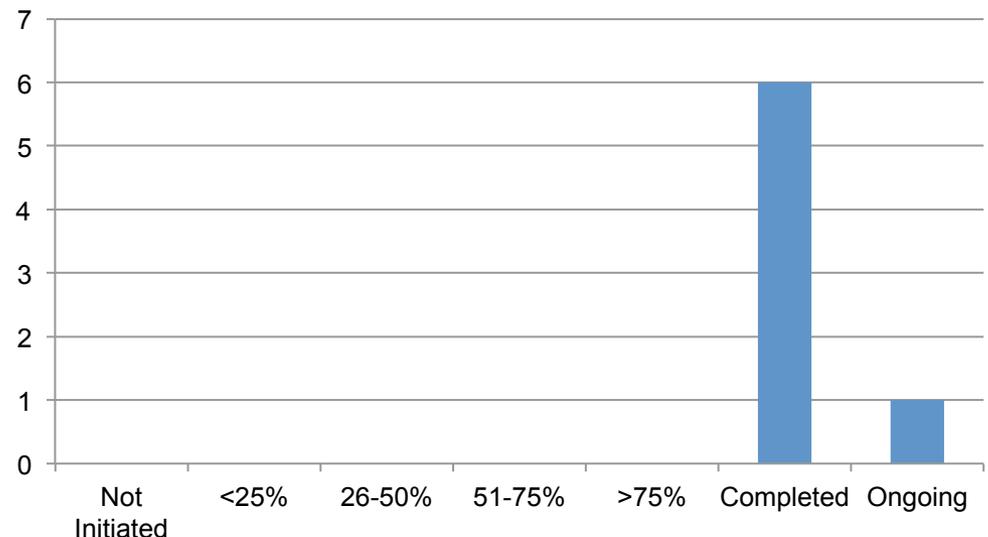
Major Accomplishments

- Submerged cable permit guidelines developed
- Environmentally sensitive areas in sanctuary identified

Looking Ahead

- May not require any additional review as the two strategies were completed

Submerged Cables



ECOSYSTEM PROTECTION

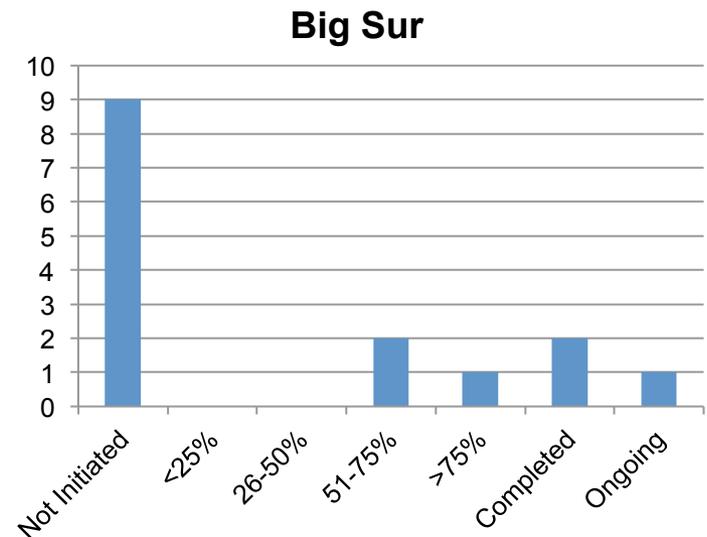
Big Sur

Major Accomplishments

- Improved interagency communication with Caltrans, State Parks, Forest Service, etc. for major events (fire, slides, etc.)
- Assessed rocky shore and subtidal ecology impacts of the Alder Creek Slide via 3-year study
- Continued to attend the Big Sur Multi Agency quarterly meetings

Looking Ahead

- Much of the plan is no longer relevant or requires major revision
- Continue coordination with Caltrans on landslide disposal
- Update GIS Sensitivity Index, which is used for management decisions during emergencies



ECOSYSTEM PROTECTION

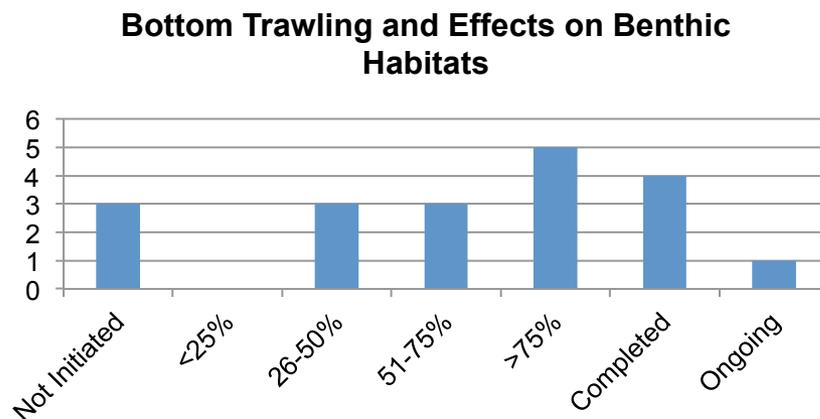
Bottom Trawling and Effects on Benthic Habitats

Major Accomplishments

- Characterized the continental shelf between Piedras Blancas and Big Creek.
- Assisted with CSUMB and TNC led study, "*Central Coast Trawl Impact and Recovery Study: 2009 - 2012.*" (in partnership with fishermen)
- Submitted Collaborative Proposal to Pacific Fishery Management Council to request modifications to Groundfish Essential Fish Habitat, 2013
- Identified Sanctuary Ecologically Significant Areas (SESAs), 2013

Looking Ahead

- Much of the plan is relevant but requires differing levels of revision
- Continue to track PFMC process for Groundfish EFH modifications
- Full SESAs implementation



ECOSYSTEM PROTECTION

Davidson Seamount

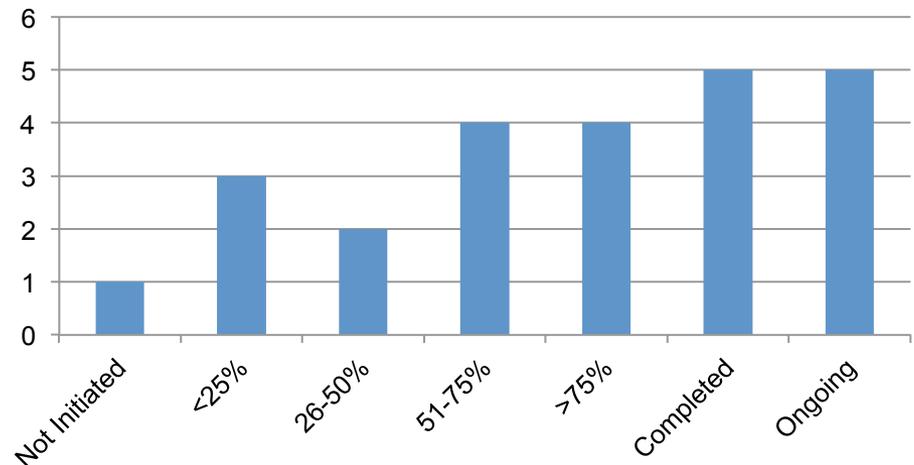
Major Accomplishments

- Identified as one of the better explored seamounts in the world
- Identified as one of the best protected seamounts in the world
- Davidson Seamount Management Zone management plan developed
- Taxonomic Guide completed, including 6 species new to science
- May 2015 Cruise planned on NOAA R/V *Shimada*

Looking Ahead

- Replace this plan with the Davidson Seamount Management Zone plan

Davidson Seamount



ECOSYSTEM PROTECTION

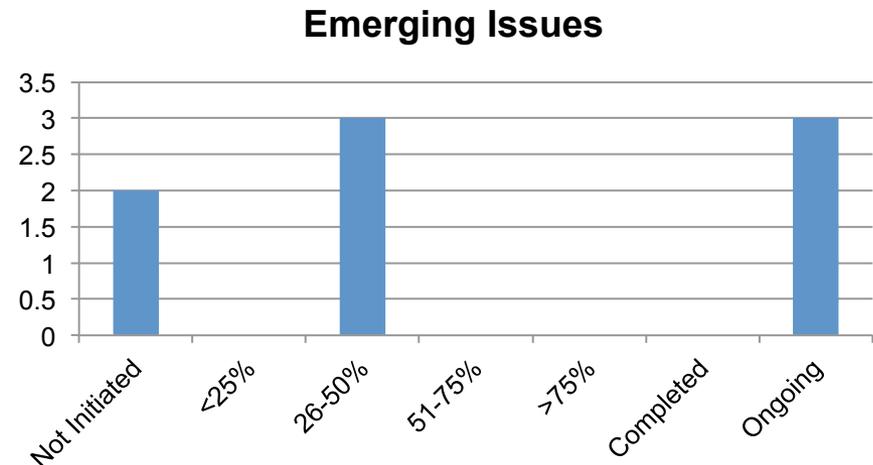
Emerging Issues

Major Accomplishments

- Influencing USCG regulatory changes on lost shipping containers (IMO)
- Developed and implemented 2 regional workshops on climate adaptation in collaboration with Center for Ocean Solutions and local agencies.
- Issues identified in plan are escalating and being tracked/addressed (desalination, elephant seal expansion, micro-plastics, climate adaptations)

Looking Ahead

- Continue work on lost shipping containers, climate adaptation, etc.
- Update list of emerging issues



ECOSYSTEM PROTECTION

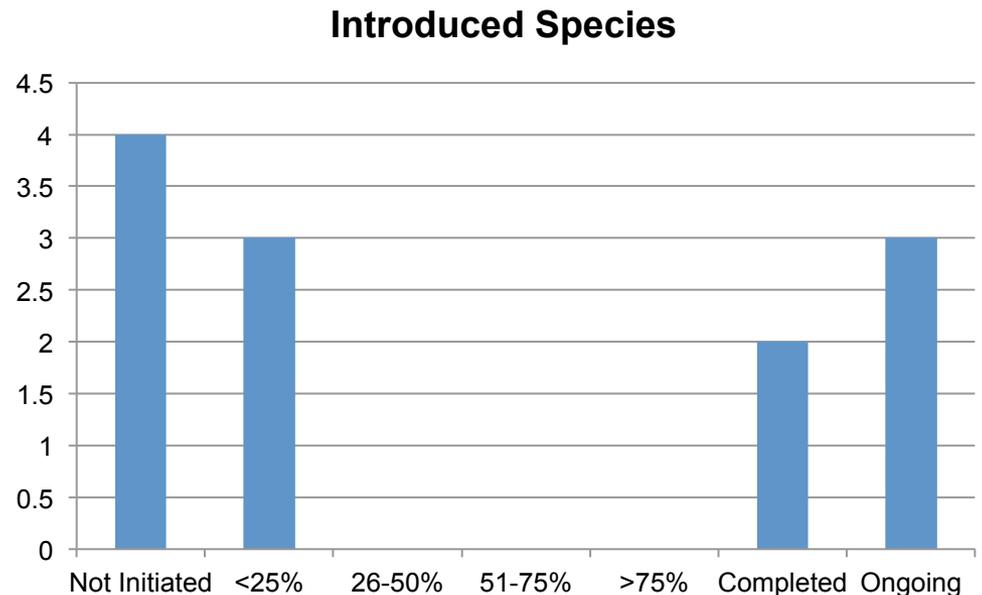
Introduced Species

Major Accomplishments

- Characterized, monitored, and attempted to manage spread of *Undaria*, and *Watersipora*.
- Promulgated regulation banning invasive species in federal waters. Final rule March 2015

Looking Ahead

- Update entire action plan
- Continue to coordinate with NOAA, National and Regional Aquatic Nuisance Species group



ECOSYSTEM PROTECTION

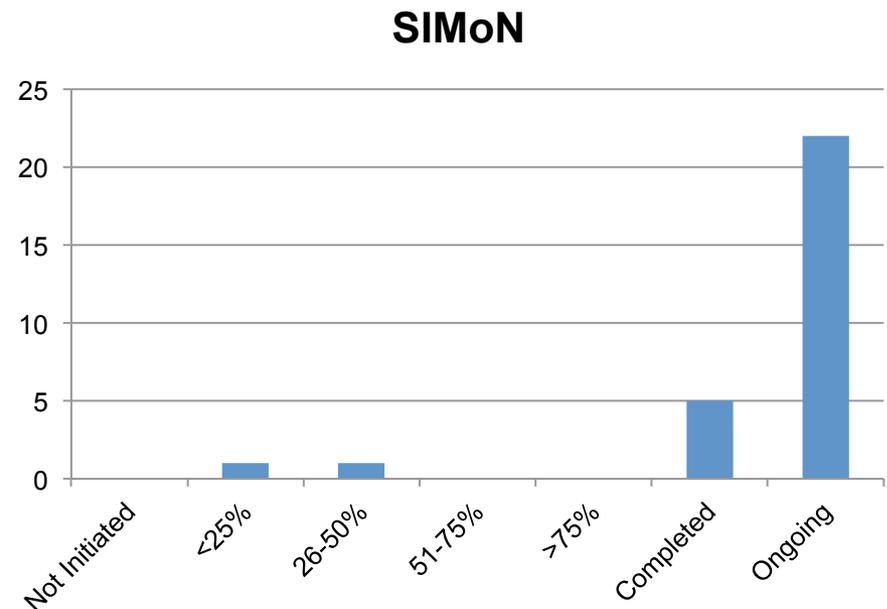
SIMoN

Major Accomplishments

- MBNMS Monitoring priorities identified
- MBNMS Condition Report, assessing resources of the MBNMS
- Robust SIMoN web site (expanding to include CINMS)
- Over 130 research groups provide monitoring information to SIMoN

Looking Ahead

- Much of the plan is relevant and ongoing in nature
- Revisit funding mechanisms and the feasibility building it out for all sites



ECOSYSTEM PROTECTION

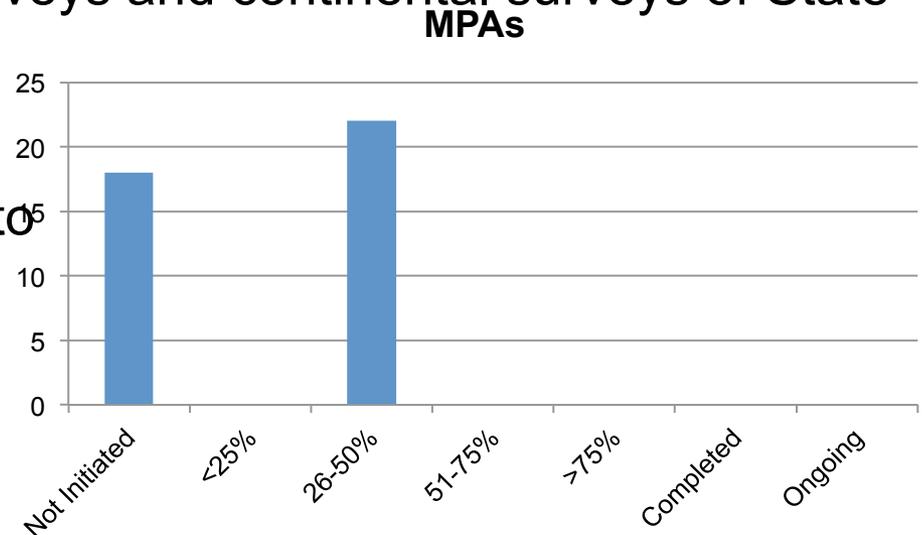
Marine Protected Areas

Major Accomplishments

- Phased MPAs process into Sanctuary Ecologically Significant Areas (SESAs) development
- Established non-regulatory Sanctuary Ecologically Significant Areas
- *The Natural Resources of Monterey Bay National Marine Sanctuary: a focus on federal waters, 2013*
- Collaborated on MPA SCUBA surveys and continental surveys of State MPAs

Looking Ahead

- Complete revision of action plan to focus on implementing SESAs
- Continue MPA SCUBA surveys



OPERATIONS AND ADMINISTRATION

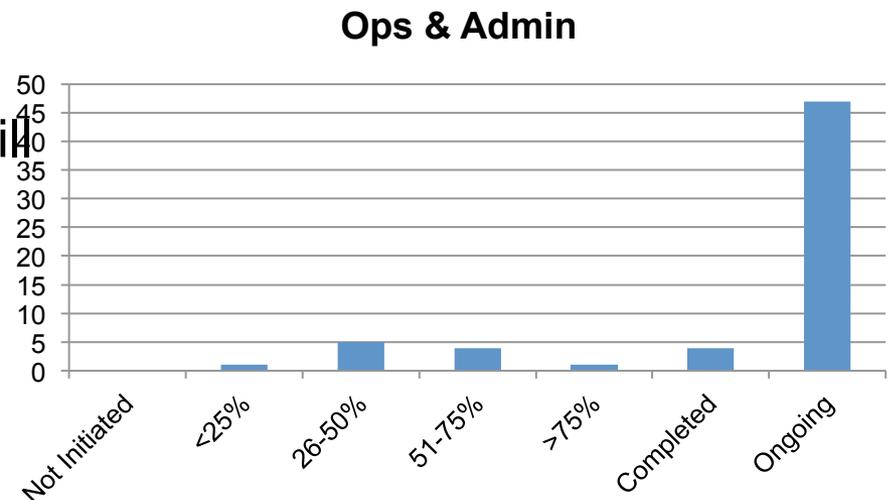
Operations and Administration

Major Accomplishments

- Robust, safe dive operations – detected sea star wasting syndrome
- Active and engaged Sanctuary Advisory Council
- Robust permit process w/ continued streamlining
- Established Law Enforcement Tactical Advisory Group (LETAC)
- Over 1,00 volunteers trained, enriched and recognized since 2009

Looking Ahead

- Much of the plan is still relevant, will need revision of boat and aircraft operations and refinement of dive operations



OPERATIONS AND ADMINISTRATION

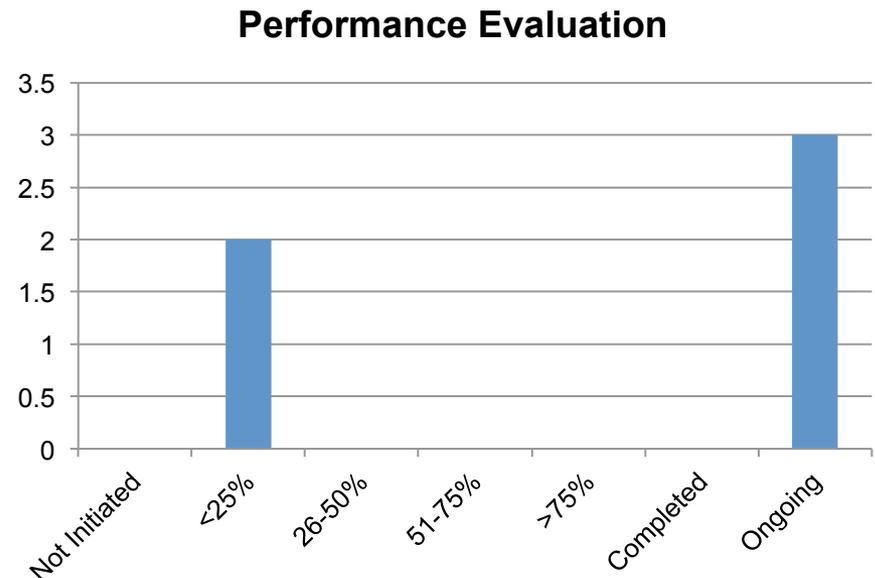
Performance Evaluation

Major Accomplishments

- Management Plan assessed in 2011, 2013 and 2015
- Reports to SAC
- Alignment of management Plan, Annual Operating Plan and work plans

Looking Ahead

- New performance measures with milestones will need to be put in place in order to effectively assess action plans in future



PARTNERSHIPS AND OPPORTUNITIES

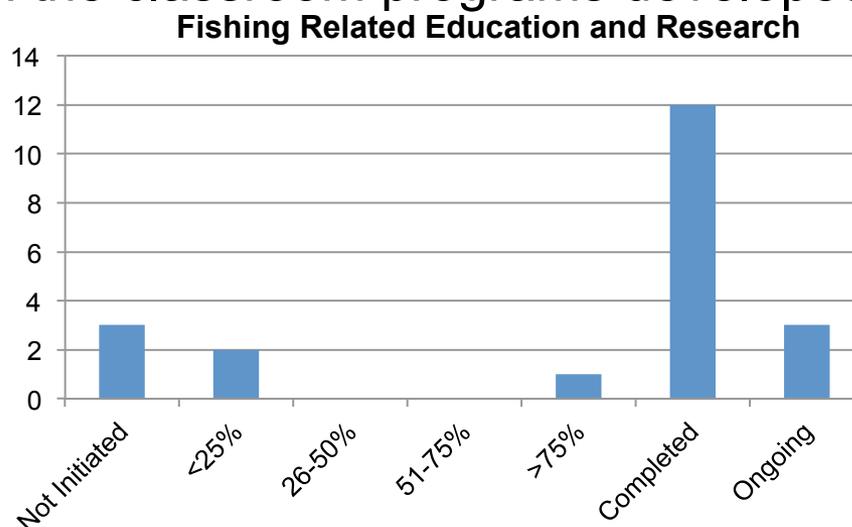
Fishing Related Education and Research

Major Accomplishments

- "Local Catch Monterey Bay" [Now "Real Good Fish"] facilitated by MBNMS
 - Sea Grant Fellow (community supported fishery)
- *A profile of the hook and line fishery for California Halibut in Monterey Bay, California: learning from fishermen through collaborative research - study*
- Voices of the Bay and Fisherman in the classroom programs developed
- Fisheries exhibitry and signage

Looking Ahead

- Much of this plan has been completed or well underway
- New emphasis needed for communication between fishermen and researchers



PARTNERSHIPS AND OPPORTUNITIES

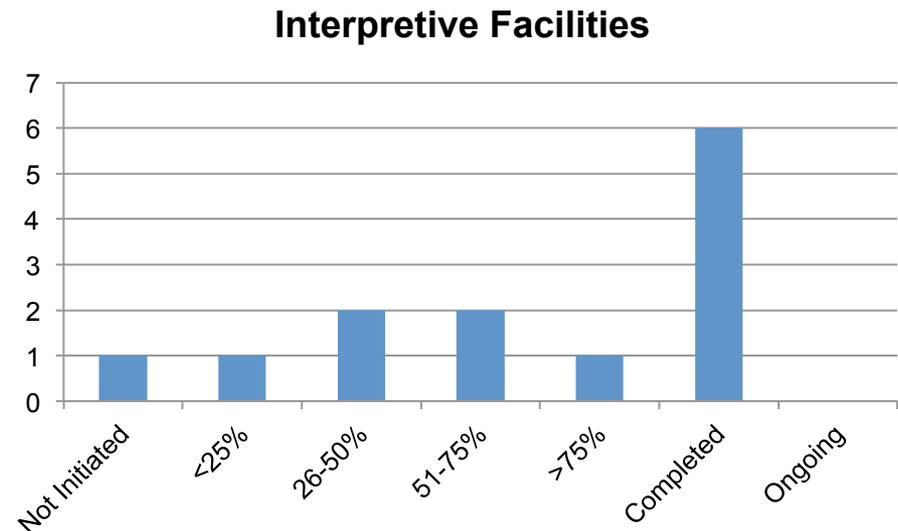
Interpretive Facilities

Major Accomplishments

- Sanctuary Exploration Center constructed and operational
- Coastal Discovery Center exhibits updated
- Signage Inventory updated (36 signs installed sanctuary wide interpreting wildlife viewing practices)
- New MBNMS website
- Social media implemented

Looking Ahead

- So much of the plan is completed it will require a rewrite focused on operations and moving forward with centers and signage in place



PARTNERSHIPS AND OPPORTUNITIES

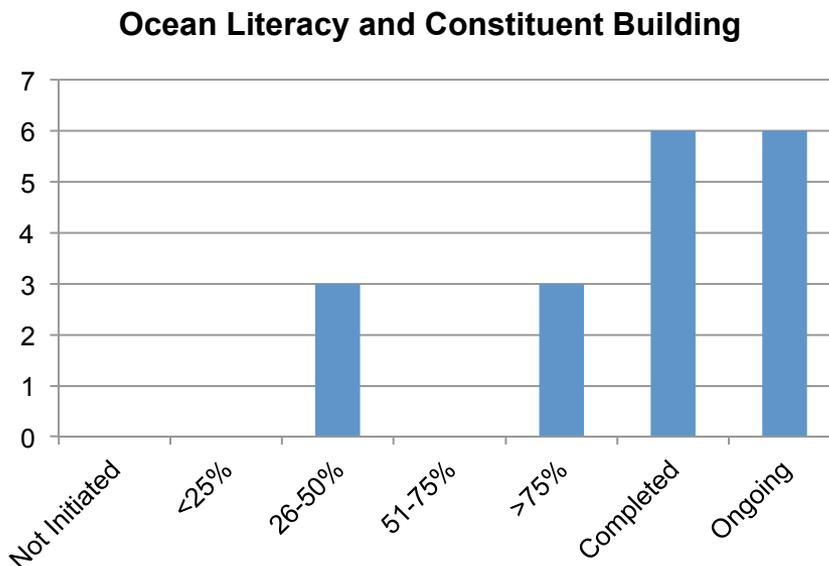
Ocean Literacy and Constituent Building

Major Accomplishments

- Robust Volunteer programs
- Quality Classroom and informal education programming (> 12,000 students through MERITO, Centers, in-class and special programs)
- 14 years of MERITO programming: students, teachers, interns & communities
- 25th Currents Symposium (research topics in Monterey Bay), CSUMB now leads

Looking Ahead

- A large number of actions initiated, but many require revision of some kind
- Refine focus of K-12 programming and Business Outreach
- Strengthen organization of volunteer programs



WATER QUALITY

Beach Closures and Microbial Contamination

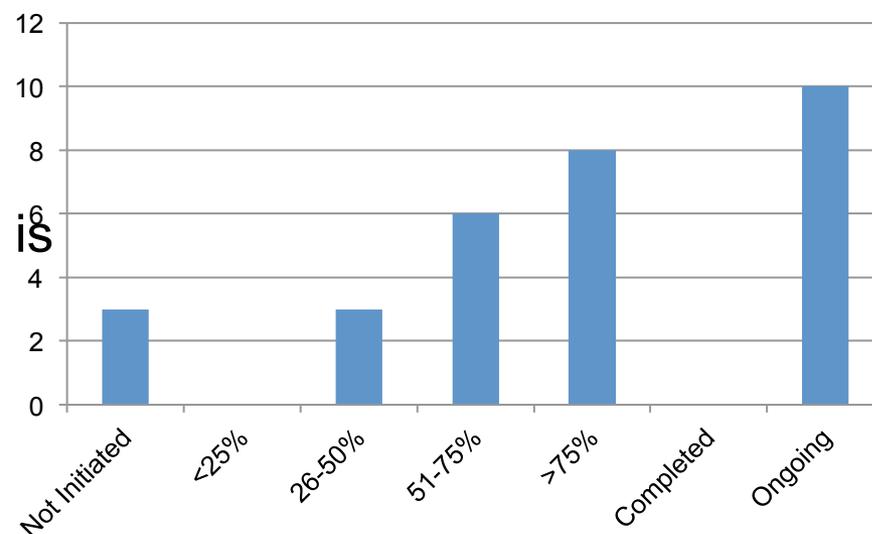
Major Accomplishments

- First Flush and Urban Watch programs - data collection & public engagement
- 15 Years of Snapshot Day - data collection & public engagement
- Millions in grant money to local cities based on WQPP data

Looking Ahead

- Keep plan largely as is w/ some minor revision
- Monitoring is ongoing in nature and is important to continue

Beach Closures



WATER QUALITY

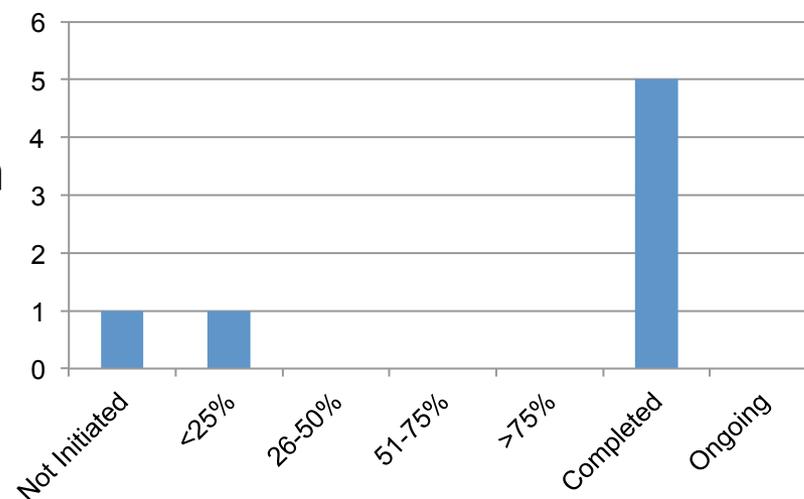
Cruise Ship Discharges Major Accomplishments

- Coordinated unscheduled, random USCG/NOAA inspections of cruise ships
- No MBNMS discharge related violations detected once prohibitions in place.
- Cruise lines initiated internal guidance and operational compliance materials for crew while in MBNMS and other NMSs

Looking Ahead

- Most of this plan will require revision
- Continued collaboration with City of Monterey and USCG

Cruise Ship Discharges



WATER QUALITY

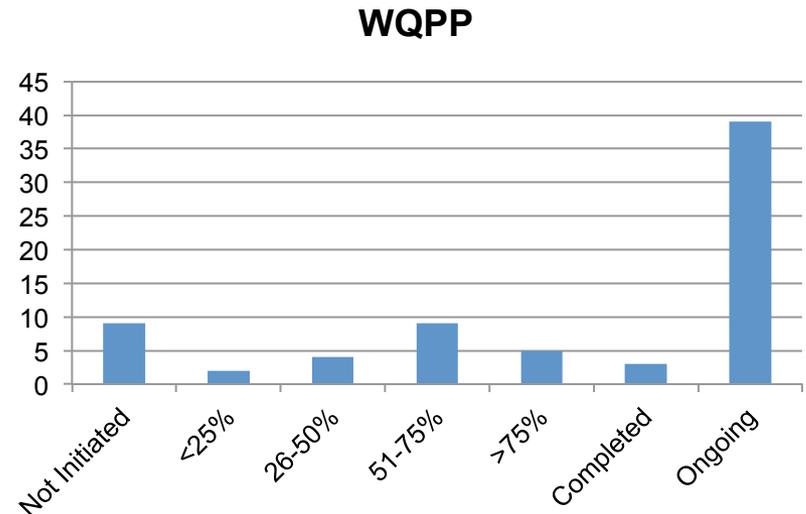
Water Quality Protection Program Implementation

Major Accomplishments

- Draft Plan for a region-wide water quality monitoring program developed and supported by coastal jurisdictions
- Central Coast Action Tracker portal developed
- Coordination and participation in Agriculture Water Quality Alliance

Looking Ahead

- Keep largely as is, with revisions to regional monitoring, access to data and areas where harbors and municipalities have taken the lead
- Major revisions suggested for activity related to wetland and riparian areas



WILDLIFE DISTURBANCE

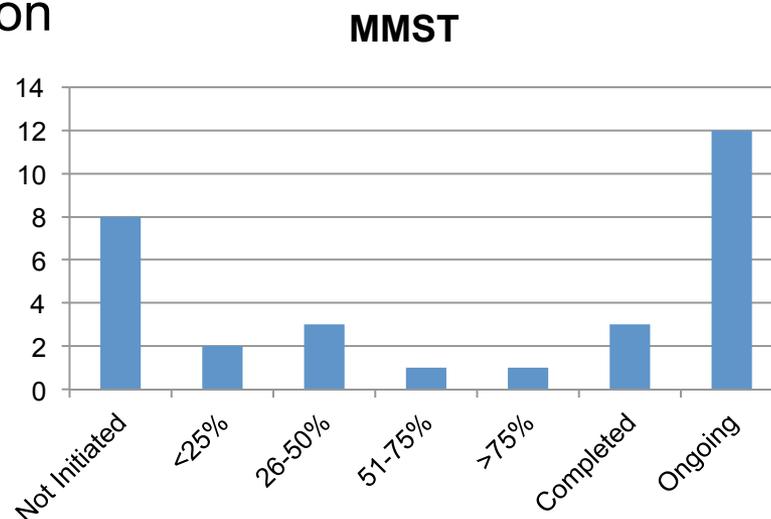
Marine Mammal, Seabird, and Turtle Disturbance

Major Accomplishments

- Team OCEAN program (14th season, >81,000 contacts, 15,000 hrs)
- Bay Net shoreline interpretation program (130,000 contacts, 8,500 hrs)
- Revisions to FAA charts now include NOAA over flight zones
- Primary responder for whale entanglement issues
- Lost fishing gear removal cruises (2009, 2010, 2012)
- Developed method for monitoring maritime industry compliance
- ONMS Noise Working Group participation

Looking Ahead

- Some portions are still very relevant with revisions required for enforcement, acoustics, sea turtles and impacts from commercial harvest.



WILDLIFE DISTURBANCE

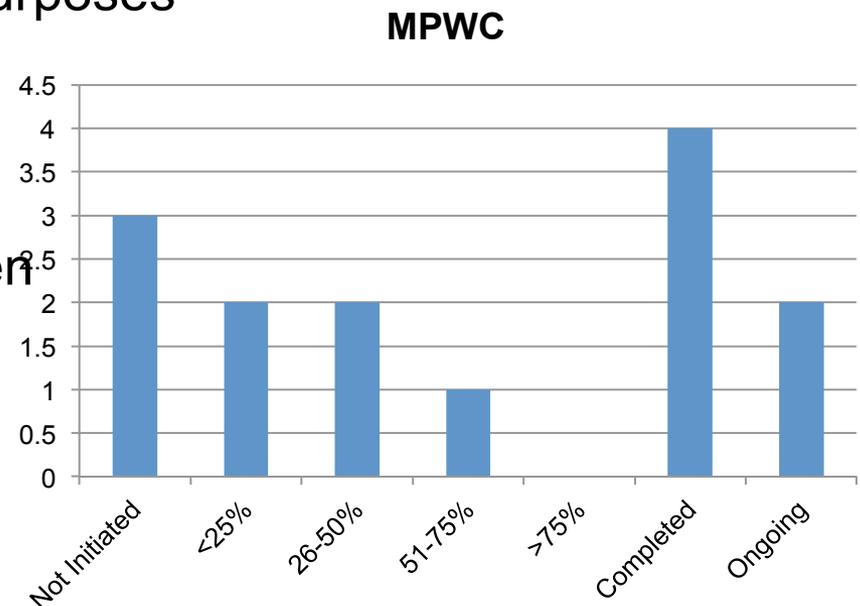
Motorized Personal Watercraft

Major Accomplishments

- Created Mavericks conditional seasonal zone
- Created and administered permit system for official use by public safety agencies
- Developed and implemented standard conditions for permitting paddle-in contests utilizing MPWC for safety purposes

Looking Ahead

- Large portions of this plan have been completed or remain relevant (outreach, zone maintenance)
- Training of public safety personnel will require revision



WILDLIFE DISTURBANCE

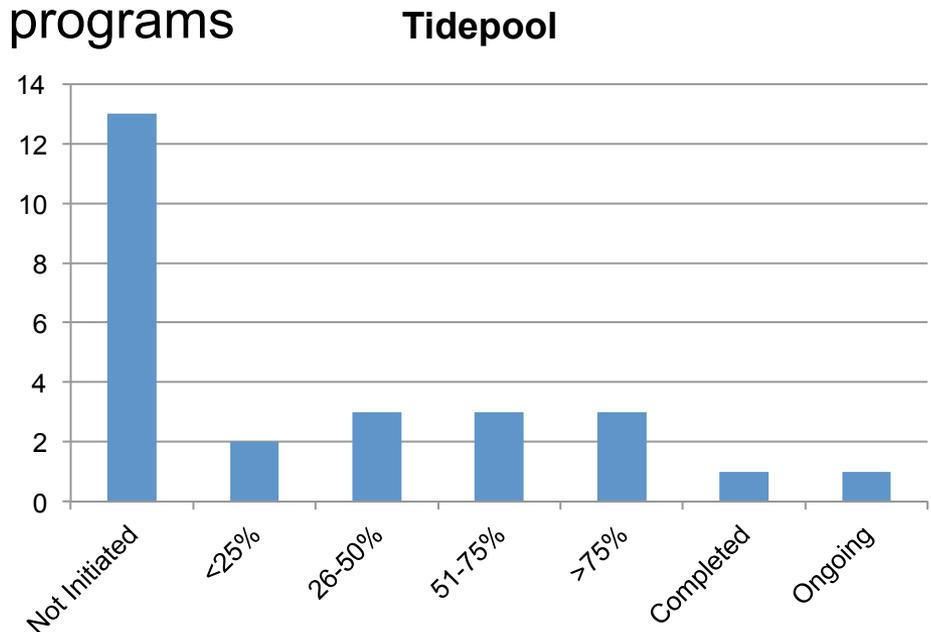
Tidepool Protection

Major Accomplishments

- Coordinated with PISCO monitoring
- Created and installed tidepool etiquette signage
- Coordinated LiMPETs Program, now with PG Museum of Natural History
- Conducted MERITO school field programs

Looking Ahead

- Much of the action plan is not yet initiated but parts are still relevant
- Major revision required
- Assess what is necessary for MBNMS vs. other agencies



CROSS-CUTTING ACTION PLANS

Maritime Heritage

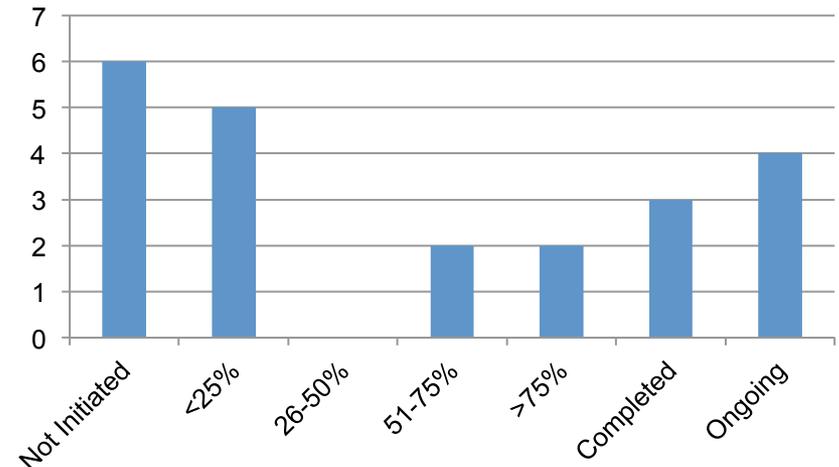
Major Accomplishments

- USS Macon wreck site characterized
- USS Macon accepted into the National Register of Historic Places
- Oil tanker Montebello surveyed in detail, at depth, and determined not to be an oil spill hazard.
- Outreach materials and web pages developed for both wrecks

Looking Ahead

- This plan has largely been superseded by the West Coast Regional Maritime Heritage Program plan

Maritime Heritage



Conclusions

- Significant progress has been made on MBNMS' 2008 Management Plan
- A significant amount of relevant work remains to be done
- Significant revisions are required
- New action plans will result from emerging issues